

Sacramento Municipal Utility District Safety for Life Culture

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Powering forward. Together.



Agenda – October 09, 2019, Safety for Life Culture

Introductions	All
New Safety Efforts at SMUD - Overview	Gary King - Chief Workforce Enterprise Services Officer
Safety for Life Culture	Patrick Durham – Director of Environmental, Safety, and Real Estate Services
Safety for Life Road Map and Challenges	Ellias van Ekelenburg – Safety Manager

Safety Leadership – 2019 to Future

- Our North Star - Be Safe. Always.
- Outcomes - “...make every move a safe one for our employees, our customers, and our community.”
- 2022 Goal – Zero incidents and Injuries.
- Develop a Safety at work, home and play that includes:
 - All SMUD employees and their loved ones.
 - Our community (Public Safety).
 - SMUD contractors and leased employees (Contractor Safety).

Changes at SMUD

- Desire to improve protection of employees, their families, contractors, and the public.
- Reduce overall risk and costs with improved safety.
- Succession planning and knowledge transfer.
- Infrastructure changes to address customer needs.
- Use of more contractors.
- Replacement of aging infrastructure.
- Supporting new energy demands in a diverse and growing economy.

Safety for Life Culture

- Work with employees, Associations (WEI, ORC, EPRI), and other Utilities (SRP, PG&E, LADWP, SCE).
- Identified Gaps within SMUD and the industry.
- Develop a Safety Roadmap using a Safety for Life Culture.
- Engagement with Leadership, Employees, and our Community.



Be Safe.
Always.

Safety for life culture

Safety at work, home and play.



Leadership engagement



Employee involvement



Community

1. Public safety
2. Contractor safety

Injury & Illness Plan (IIPP)

1. Updated IIPP program
2. Develop and implement risk
 - Reduction plans
 - Field ergonomics
 - High risk operations
 - Injury reduction programs
3. Integration of safety program validation process
4. Increased safety partnership with Field Operations
5. Renewed training and communication elements

FOUNDATION

Leading Indicators

- Near miss reporting
- SIF defense validations
- Inspection trends
- Corrected closure % of identified hazards

Lagging Indicators

1. ZERO SIF actual incidents
2. ZERO DART
3. ZERO recordables & PVAs

Safety Management System

- Policy and expectations strategic planning
- Operationalization of H&S program
- Program monitoring
- Assessment and review

Ultimate Goal

Zero injuries & PVAs

Outcomes

We make every move a safe one for our employees, our customers and our community.



Leadership Engagement

This stakeholder group is responsible and accountable for worker safety. Leadership drives the Safety for Life culture at SMUD.

What to expect from Leadership Engagement:

- Integration of health and safety work practices into business planning, project designs, and daily work activities.
- Utilizing risk and exposure data to identify improvement opportunities.
- Utilizing supervisor-employee interactions to:
 - Communicate and promote the Safety for Life culture .
 - Recognize safe work performance.
 - Identify, assess and control hazards.
 - Identify roots causes of incidents and following up to ensure effectiveness of corrective actions.
 - Demonstrating and reinforcing safe behaviors and expectations.

Employee Involvement

This stakeholder group is typically closest to the risk. By involving all employees in SMUD's risk reduction efforts, effectiveness of countermeasures and buy-in are increased.

Employees share in being accountable for Safety and are encouraged to participate in:

- Field Visits & Observations/Inspections.
- Training Development and Delivery.
- Safety Committees (i.e. SCORCH, JLMSC).
- Safety Meetings.
- Near Miss Reporting.
- Recognition.
- Work Procedure Development.
- Audits.
- Incident Investigations.

Community

This stakeholder group includes the public, contractors, and leased employees. We act in the collective best interests of our customers and community.

What to expect:

- **Public Safety**

- Continued Electrical Safety Education & Training with EM responders, schools, contractors, and agricultural workers.
- Promote/Create Call before you Dig (811), Look up and Live, Teen Driving, & Yard Safety.
- Strengthen EMF/RF programs.
- Improved follow-up and metrics on SMUD electrical contact incidents.
- Joint table top ER training for Gas Pipeline.
- Pole Relocation efforts.
- Air quality risk assessments.

- **Contractor Safety**

- ISNet contractor selection and review.
- Contractor onboarding, field visits, and job closeouts.
- Employee, stakeholder, and contract training.
- Contractor Safety metrics

Benchmarking

- EPRI - Case studies and subcommittees
- Utilities – IOU and PUDs
- Associations – WEI and ORC
- Vendors/Contractor Support
- KPI Comparisons



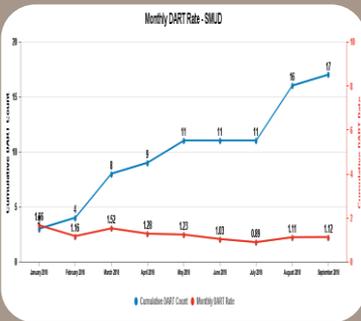
Safety Leadership

- Incident Review Committee
- 5-year Safety Road Map
- Communication Plan Development
- SMUD-wide Safety Roles & Responsibilities
- VPP Effort at the UARP & Gas Pipeline
- Health Assessment Program (HAP)



Safety Program Changes

- Safety E-learning
- EMS Electrical Safety Training
- Driver Safety with Telemetric Plan Development
- Workflow Integration Plan
- 5G – RF Safety Plan Review



Safety Metrics and Communications

- Improved Dashboard for DART Reporting
- Electronic Safety Management System
- Standards Development & Training
- Improved Document Control



Safety Compliance

- Near Miss Reports with root cause analysis for SIF potential events
- Accident/Incident Investigation Training
- Job Hazard Analysis – New with Risk Ranking
- Field Safety Support
- Improved Internal Assessment Process



Safety Programs

- Safety for Life - Family Days, CPR/First Aid/Situational Awareness
- Driver Safety – Driving Skill Competition & Driving Program Improvements
- SCORCH – Behavior Based Safety Mini Conference. Over 6k obs.
- Corrective Action Follow-up
- JLSCM – Pole Relocation, Tool Subcommittee, Tailboard Dev.



Contractor & Public Safety

- Safety Pre-Qualification of Contractors
- Look up and Live Billboard Campaign
- Education and Training with First Responders and Schools
- Improved EMF and RF Meters and Response Programs
- Gas Pipeline Training Exercise/Utility Public Safety Alliance
- Working with the City of Sacramento on new pole permitting req.

2019 & Beyond

New Safety leadership brings SMUD down an untraveled road:

- Increased use of mobile safety software to conduct:
 - Inspections / Field Assessments
 - Incident & Concern reporting
 - Virtual observations
 - Hands on risk assessments
- Further integration of Safety for Life program elements.
- Increased field presence of safety professionals, enhanced crew visits.
- Advanced use of leading indicator risk reduction metrics.



Challenges to Operations

- **Trust** – Strengthening trust among leadership and employees.
- **Communication** - Safety program changes to field forces, and relevant information to our employees, family, contractors, and the public.
- **Management and Speed of Change** - Too much change too quickly leads to weak implementation.
- **Resource Allocation** – Scheduling and planning the development and implementation of new and revised safety programs and efforts with already busy Business Unit employees.
- **Technology** – Need for better data management systems to improve analysis and data analytics.

Questions & Answers
